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<b>(21) International Application Number:</b> PCT/US98/06615 <b>(22) International Filing Date:</b> 10 April 1998 (10.04.98)  <b>(30) Priority Data:</b> 60/041,835 10 April 1997 (10.04.97) US 60/055,495 12 August 1997 (12.08.97) US  <b>(71) Applicant (for all designated States except US):</b> PRINCETON UNIVERSITY [US/US]; Office of Technology & Trade-mark Licensing, 5th floor, New South Building, Princeton, NJ 08544-0036 (US).  <b>(72) Inventor; and</b> <b>(75) Inventor/Applicant (for US only):</b> GILVARG, Charles [US/US]; 240 Hartley Avenue, Princeton, NJ 08540 (US).  <b>(74) Agents:</b> LICATA, Jane, Massey et al.; Law Offices of Jane Massey Licata, 66 E. Main Street, Marlton, NJ 08053 (US).		<b>(81) Designated States:</b> AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> METHOD OF DETECTING PROCARBOXYPEPTIDASE A AND CARBOXYPEPTIDASE A LEVELS IN BIOLOGICAL FLUIDS  <b>(57) Abstract</b>  Methods of enhancing sensitivity and specificity of an assay measuring enzymatic activity in a sample by measuring enzymatic activity in the sample in the presence and absence of a specific inhibitor of the enzymatic activity are provided. Methods of measuring carboxypeptidase A levels and total carboxypeptidase A levels, wherein procarboxypeptidase A is converted to carboxypeptidase A by addition of clostripain, in a biological fluid with a carboxypeptidase A substrate, specificity of which is enhanced by addition of a carboxypeptidase A specific inhibitor are also provided. In addition, methods of diagnosing acute pancreatitis by measurement of carboxypeptidase A levels and pancreatic cancer by measurement of total carboxypeptidase A levels are also provided.		

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